

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 58138709
PUBLICATION DATE : 17-08-83

APPLICATION DATE : 12-02-82
APPLICATION NUMBER : 57019684

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INT.CL. : C08F 10/00 C08F 4/02 C08F 4/64

TITLE : POLYMERIZATION OF OLEFIN

ABSTRACT : PURPOSE: To prepare a highly stereoregular polymer, in high yield, without lowering the stereoregularity even by changing the melt index of the polymer, by using a catalyst composed of a Ti catalyst component, etc. and containing a specific electron donor, etc. as essential components.

CONSTITUTION: Olefins are (co)polymerized in the presence of a catalyst composed of (A) a highly active Ti catalyst component containing (i) Mg, (ii) Ti, (iii) a halogen, and (iv) an electron donor selected from an ester of substituted succinic acid having alkenyl or alkylidene as substituent group, an ester of a $\geq 5C$ straight-chain olefinic unsaturated dicarboxylic acid (substituted product), and an ester of substituted malonic acid having alkenyl or alkylidene as substituent group (preferably diethyl 2-allylmalonate, etc.) as essential components, (B) an organo-Al compound and (C) an organo-Si compound containing Si-O-C bond or Si-N-C bond.

EFFECT: The amount of the catalyst residue can be reduced.

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